

FIGURE 1 (PRIOR ART)

FIG. 2 (PRIOR ART)

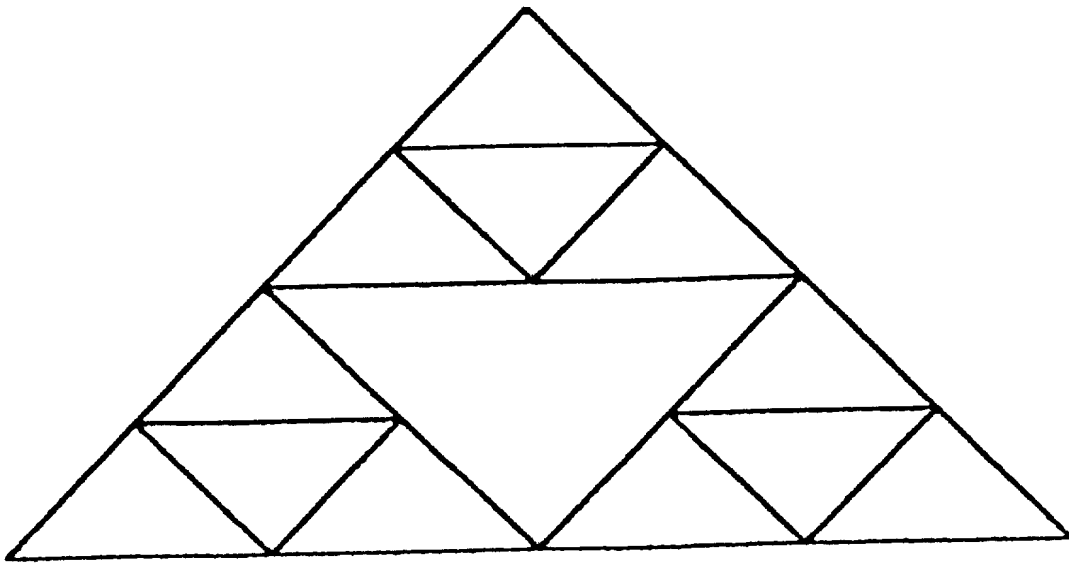


FIG. 3 (PRIOR ART)

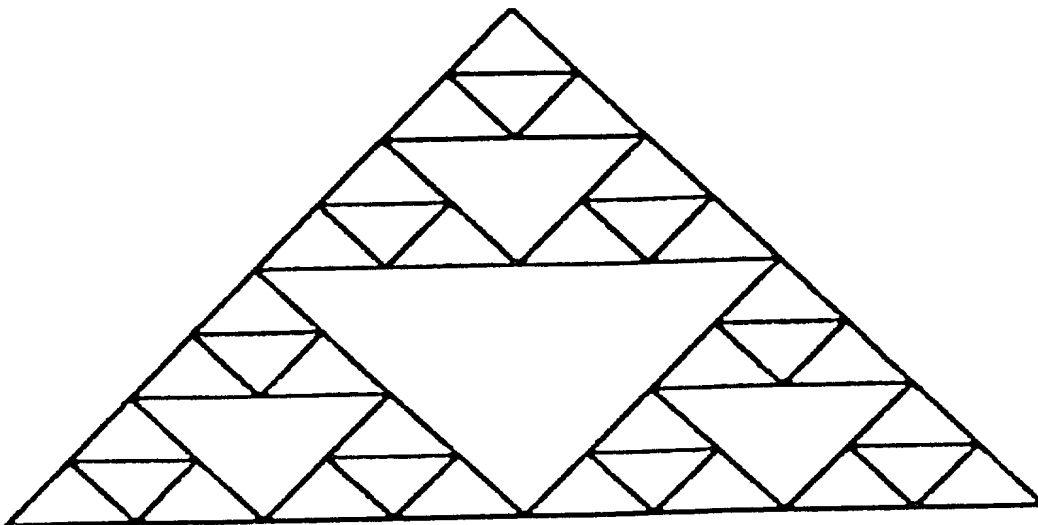


FIG. 4 (PRIOR ART)

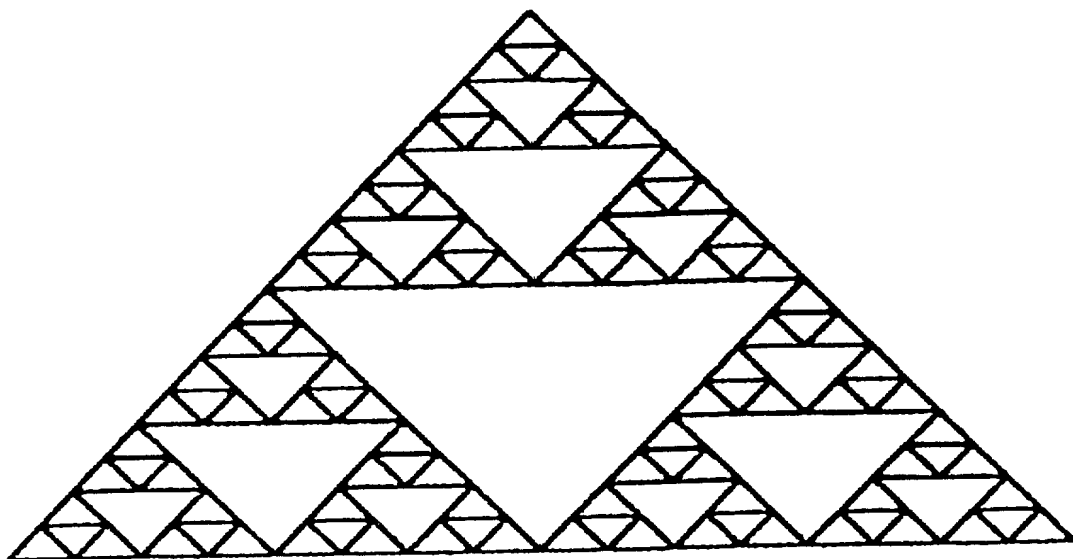


FIG. 5 (PRIOR ART)

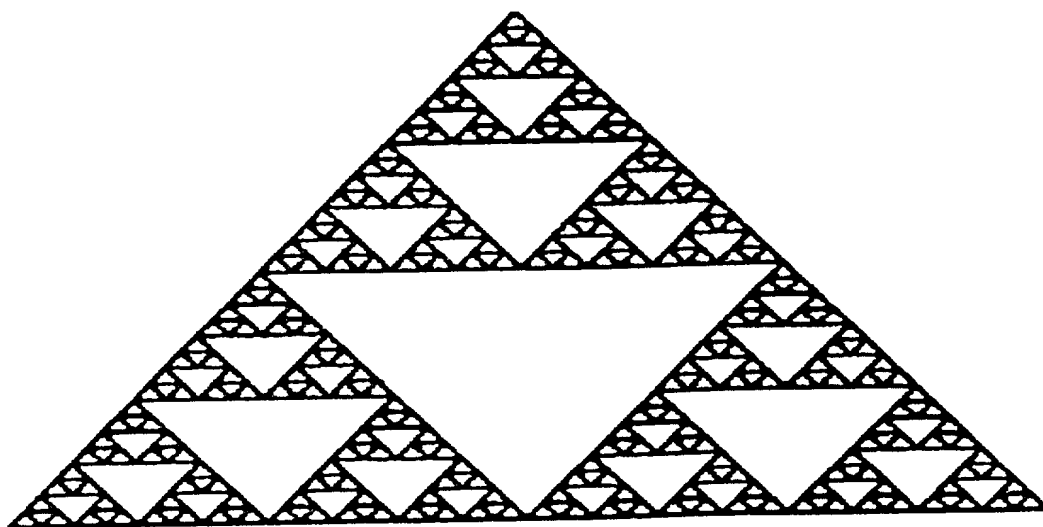


FIG. 6 (PRIOR ART)

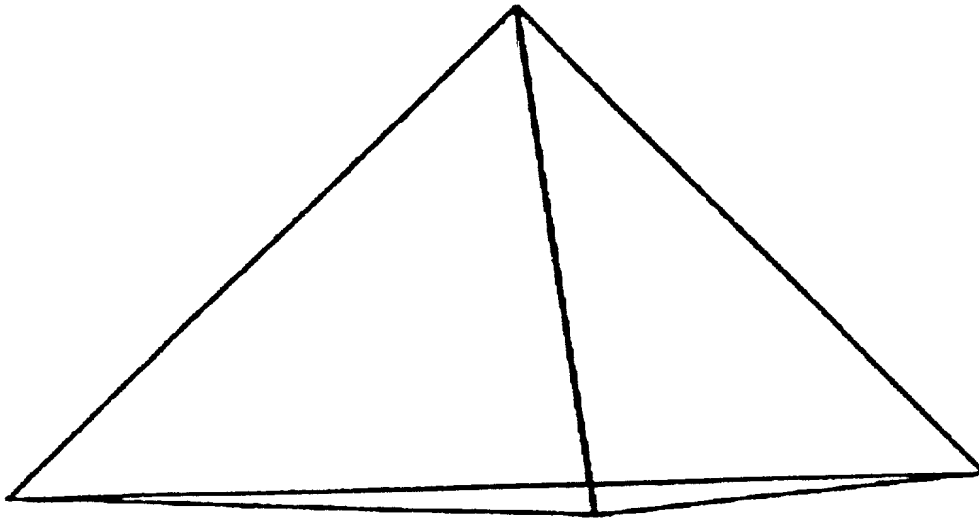


FIG. 7 (PRIOR ART)

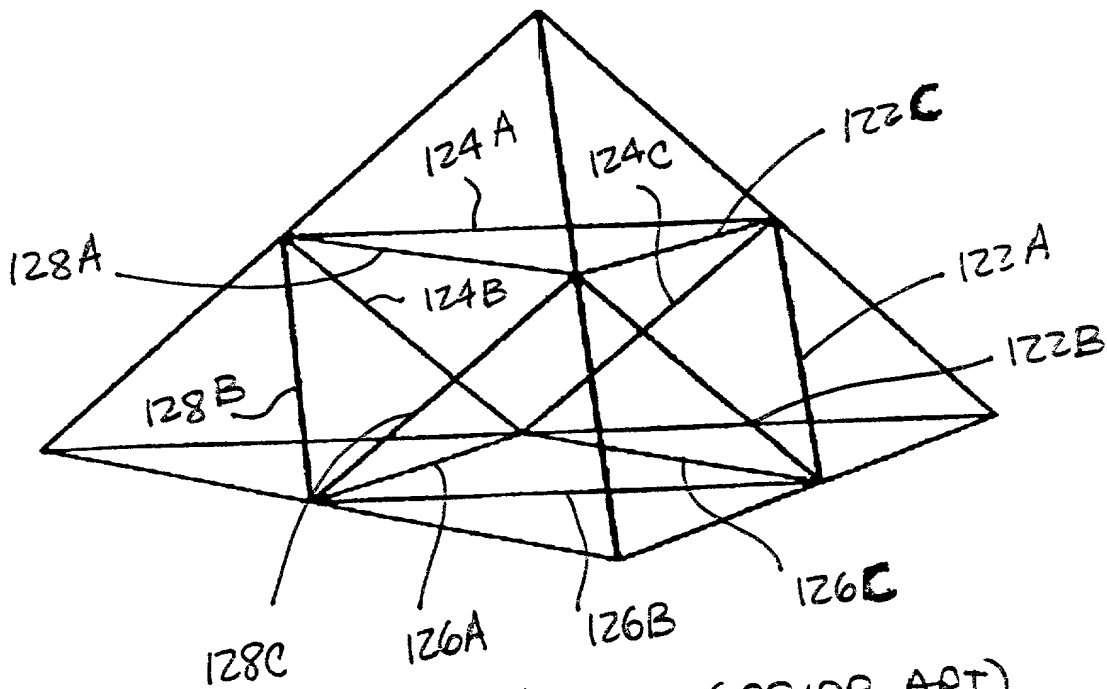


FIG. 8 (PRIOR ART)

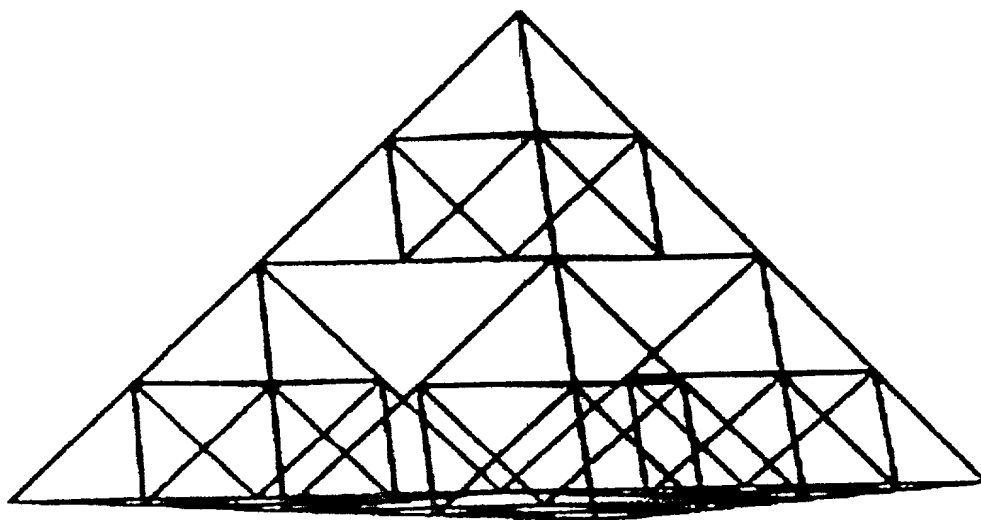


FIG. 9 (PRIOR ART)

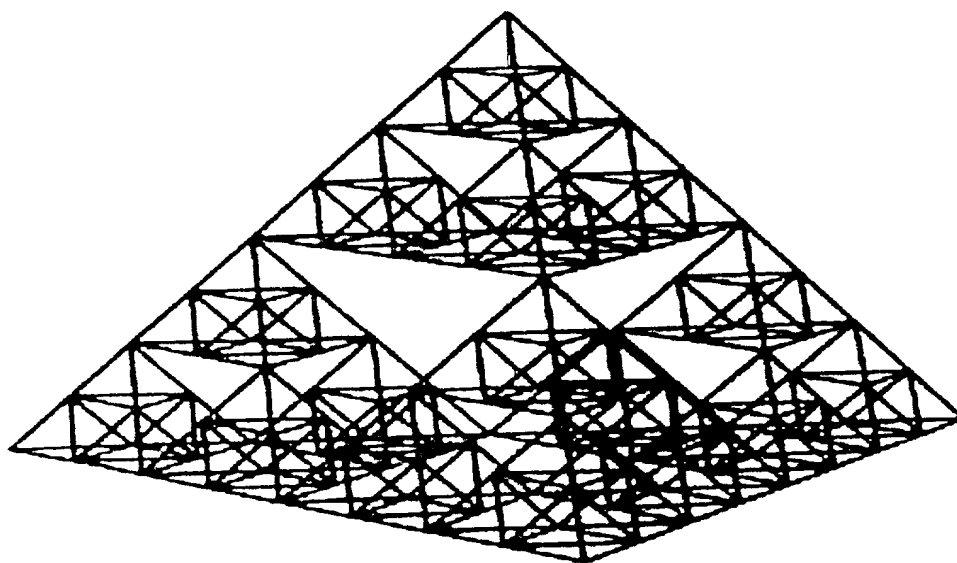


FIG. 10 (PRIOR ART)

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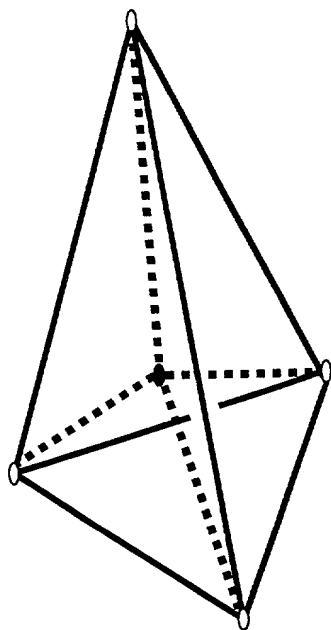


FIG. 10A
(PRIOR ART)

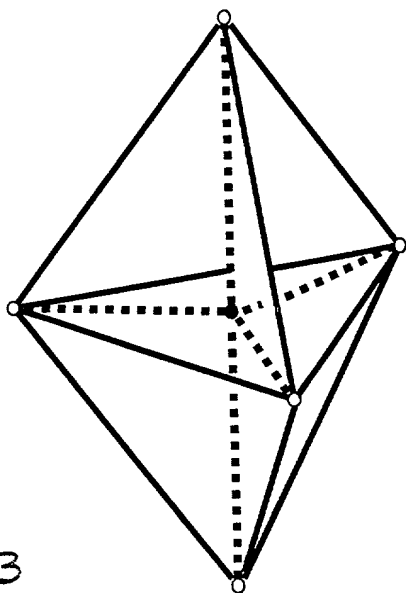
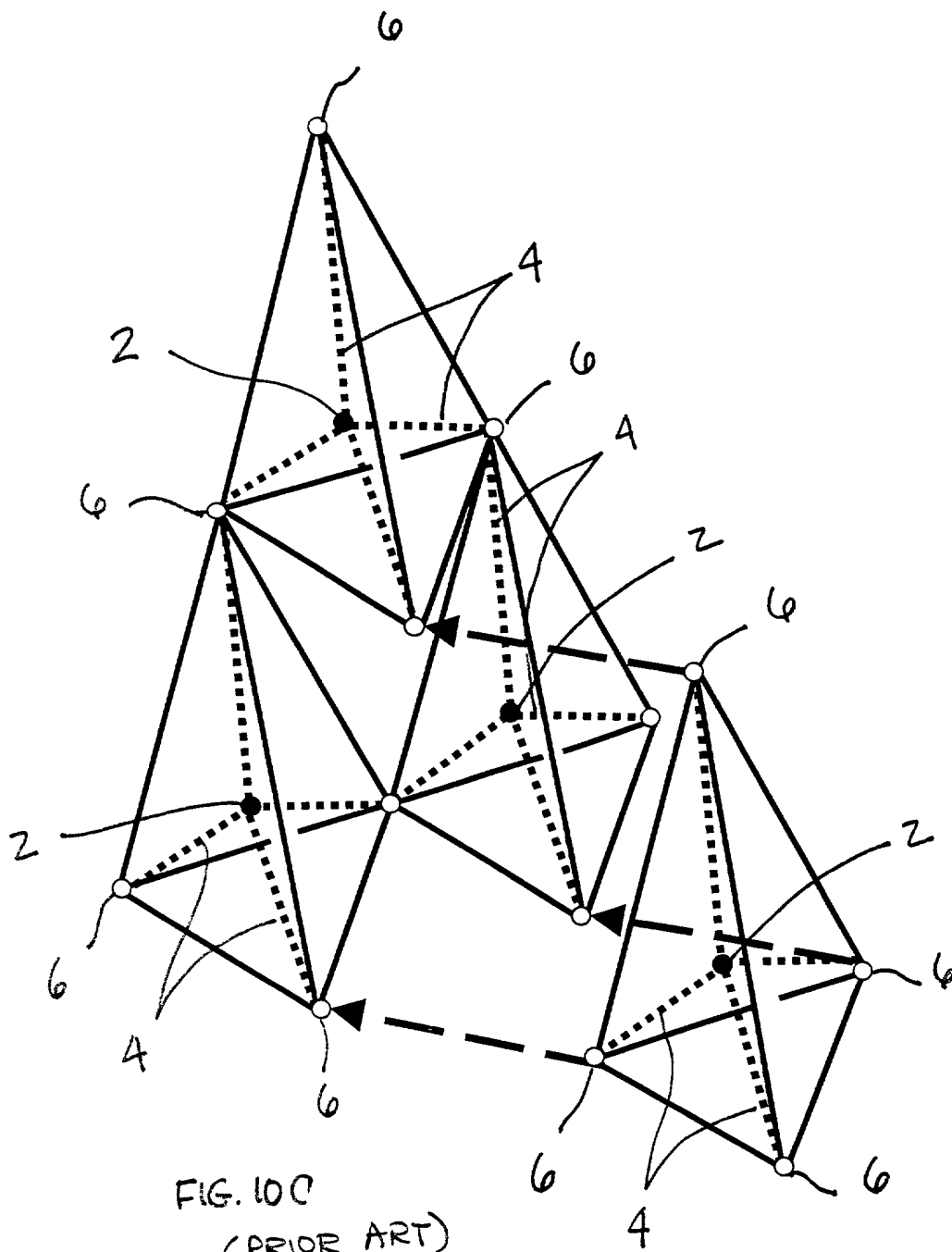


FIG. 10B
(PRIOR ART)



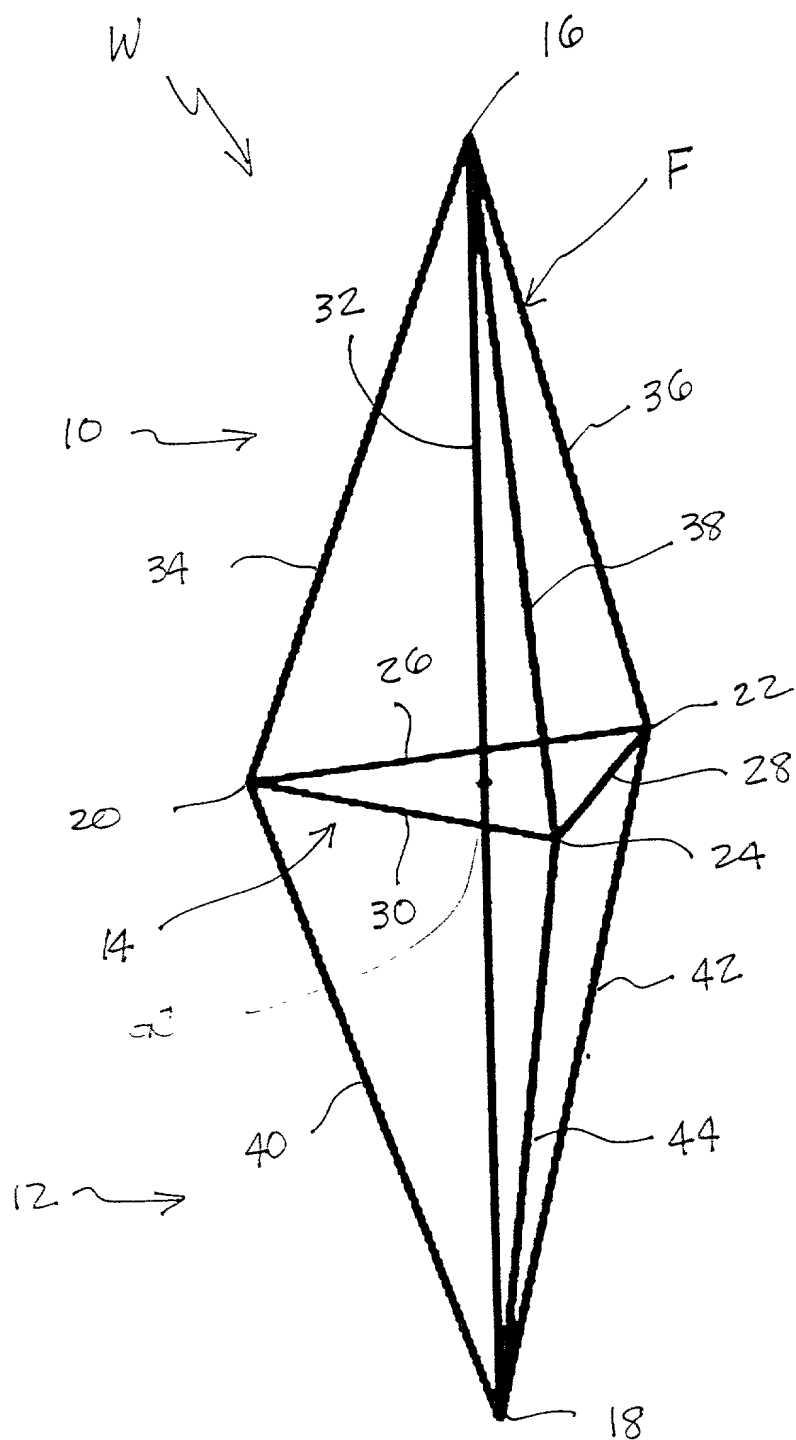
[illegible]

FIGURE 11

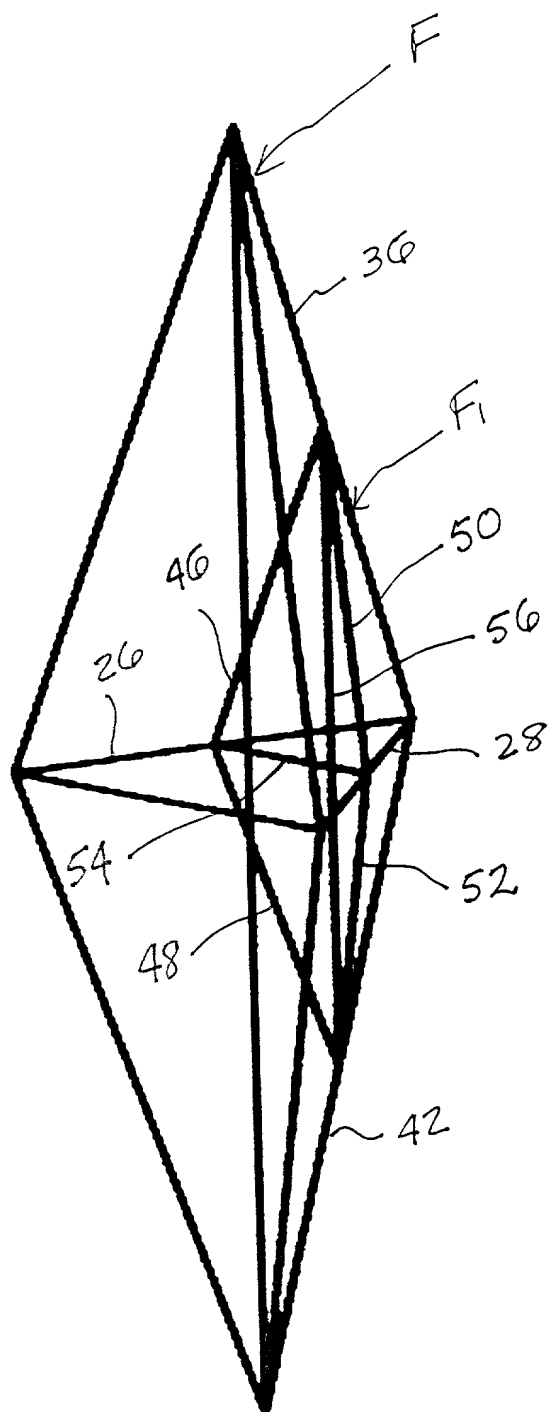


FIG. 12

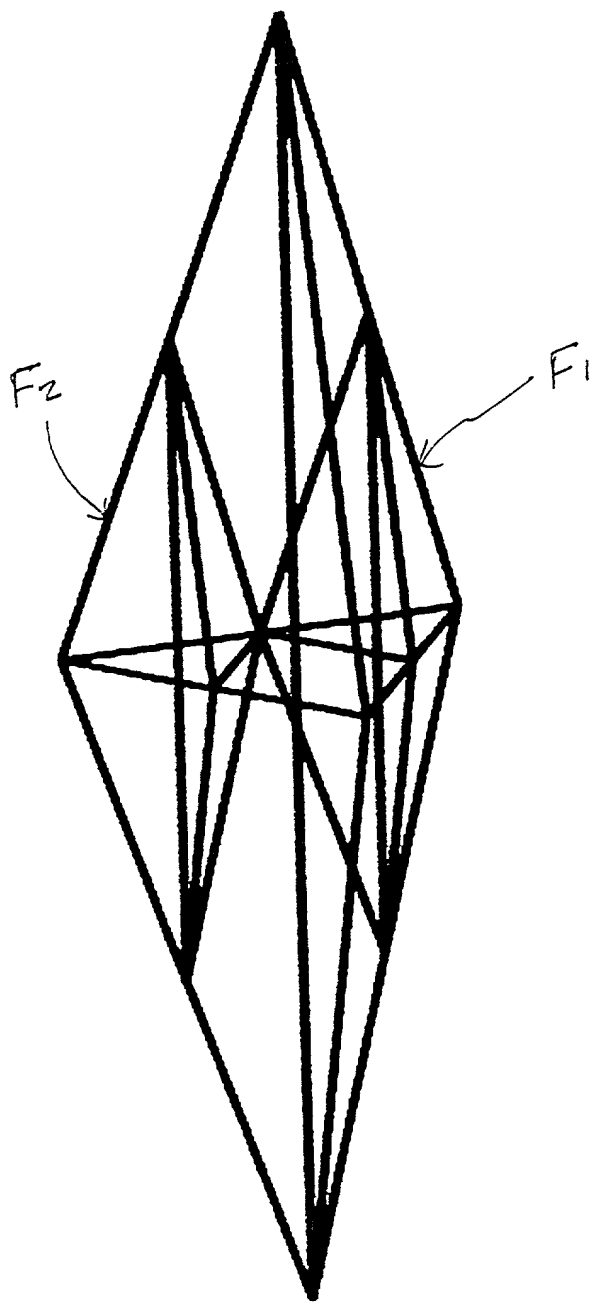


FIG. 13

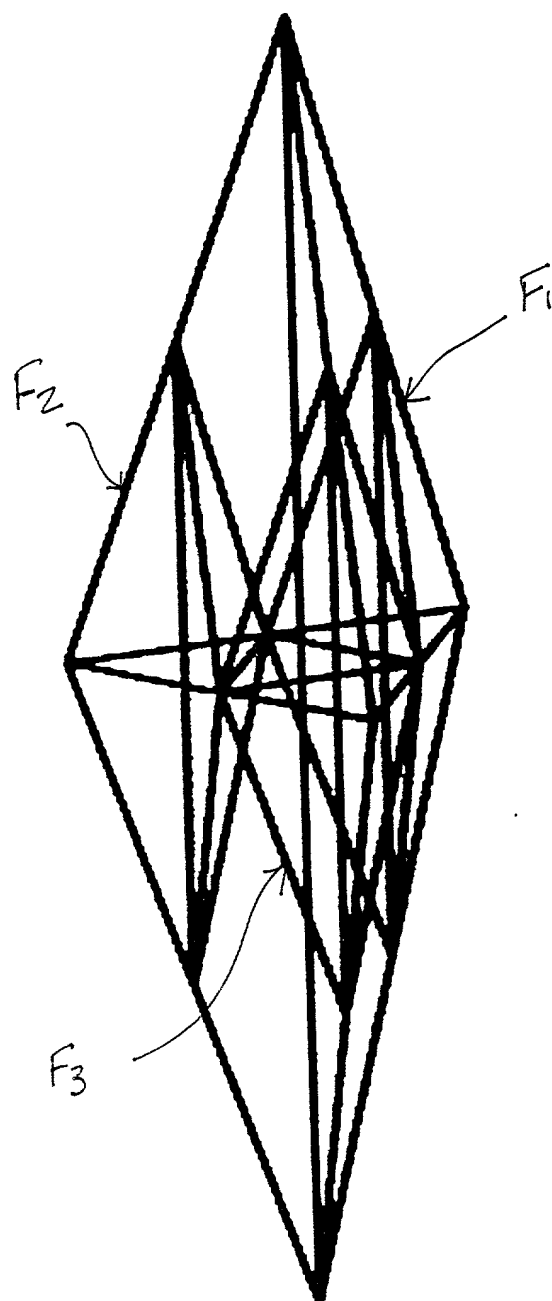
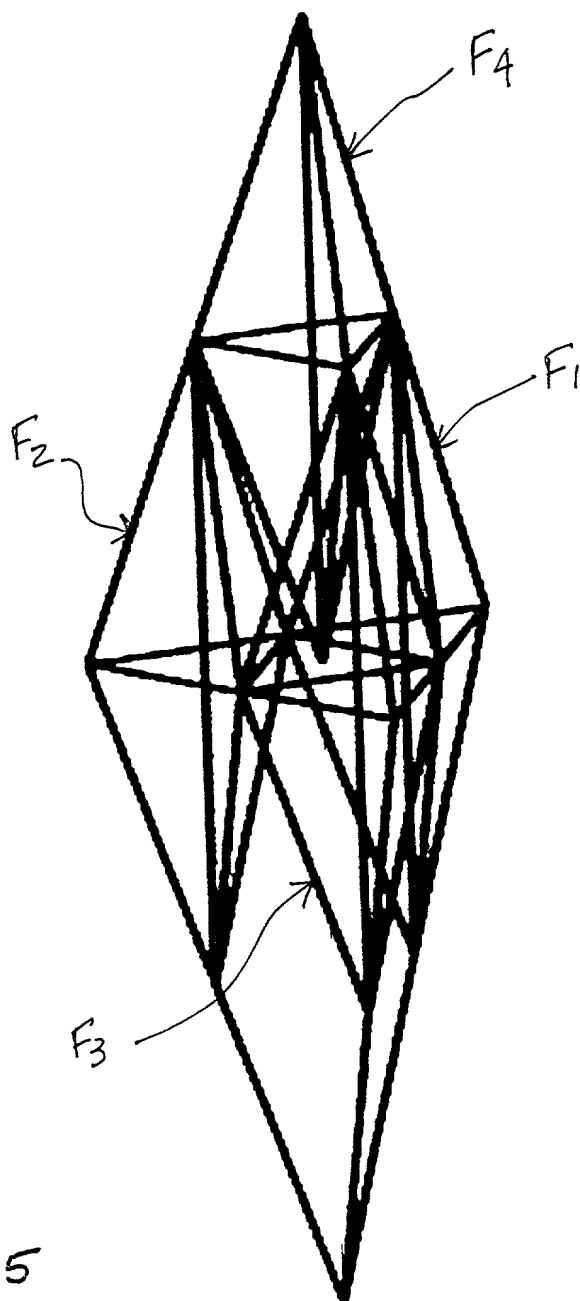


FIG. 14



Parameter	Value	Unit
Initial concentration	1.0	mol/L
Initial temperature	25.0	°C
Initial pH	7.0	
Initial ionic strength	0.1	M
Initial buffer concentration	0.05	M
Initial enzyme concentration	0.001	M
Initial substrate concentration	0.01	M
Initial product concentration	0.0	M
Initial inhibitor concentration	0.0	M
Initial cofactor concentration	0.0	M
Initial metal ion concentration	0.0	M
Initial ligand concentration	0.0	M
Initial solvent concentration	1.0	M
Initial water concentration	55.5	M
Initial air concentration	0.0	M
Initial solid concentration	0.0	M
Initial gas concentration	0.0	M
Initial liquid concentration	0.0	M
Initial plasma concentration	0.0	M
Initial fire concentration	0.0	M
Initial earth concentration	0.0	M
Initial ether concentration	0.0	M
Initial metal concentration	0.0	M
Initial non-metal concentration	0.0	M
Initial organic concentration	0.0	M
Initial inorganic concentration	0.0	M
Initial living concentration	0.0	M
Initial dead concentration	0.0	M
Initial energy concentration	0.0	M
Initial information concentration	0.0	M
Initial matter concentration	0.0	M
Initial spirit concentration	0.0	M
Initial soul concentration	0.0	M
Initial body concentration	0.0	M
Initial mind concentration	0.0	M
Initial heart concentration	0.0	M
Initial brain concentration	0.0	M
Initial liver concentration	0.0	M
Initial stomach concentration	0.0	M
Initial intestines concentration	0.0	M
Initial lungs concentration	0.0	M
Initial kidneys concentration	0.0	M
Initial bladder concentration	0.0	M
Initial skin concentration	0.0	M
Initial hair concentration	0.0	M
Initial nails concentration	0.0	M
Initial teeth concentration	0.0	M
Initial tongue concentration	0.0	M
Initial throat concentration	0.0	M
Initial mouth concentration	0.0	M
Initial nose concentration	0.0	M
Initial ears concentration	0.0	M
Initial eyes concentration	0.0	M
Initial face concentration	0.0	M
Initial head concentration	0.0	M
Initial neck concentration	0.0	M
Initial torso concentration	0.0	M
Initial arms concentration	0.0	M
Initial legs concentration	0.0	M
Initial feet concentration	0.0	M
Initial hands concentration	0.0	M
Initial fingers concentration	0.0	M
Initial toes concentration	0.0	M
Initial bones concentration	0.0	M
Initial muscles concentration	0.0	M
Initial nerves concentration	0.0	M
Initial blood concentration	0.0	M
Initial lymph concentration	0.0	M
Initial plasma concentration	0.0	M
Initial cells concentration	0.0	M
Initial tissues concentration	0.0	M
Initial organs concentration	0.0	M
Initial systems concentration	0.0	M
Initial functions concentration	0.0	M
Initial processes concentration	0.0	M
Initial activities concentration	0.0	M
Initial behaviors concentration	0.0	M
Initial traits concentration	0.0	M
Initial qualities concentration	0.0	M
Initial quantities concentration	0.0	M
Initial degrees concentration	0.0	M
Initial levels concentration	0.0	M
Initial stages concentration	0.0	M
Initial phases concentration	0.0	M
Initial periods concentration	0.0	M
Initial times concentration	0.0	M
Initial moments concentration	0.0	M
Initial instants concentration	0.0	M
Initial points concentration	0.0	M
Initial locations concentration	0.0	M
Initial positions concentration	0.0	M
Initial directions concentration	0.0	M
Initial movements concentration	0.0	M
Initial actions concentration	0.0	M
Initial events concentration	0.0	M
Initial occurrences concentration	0.0	M
Initial happenings concentration	0.0	M
Initial incidents concentration	0.0	M
Initial accidents concentration	0.0	M
Initial disasters concentration	0.0	M
Initial catastrophes concentration	0.0	M
Initial crises concentration	0.0	M
Initial emergencies concentration	0.0	M
Initial problems concentration	0.0	M
Initial issues concentration	0.0	M
Initial concerns concentration	0.0	M
Initial matters concentration	0.0	M
Initial subjects concentration	0.0	M
Initial topics concentration	0.0	M
Initial fields concentration	0.0	M
Initial domains concentration	0.0	M
Initial areas concentration	0.0	M
Initial regions concentration	0.0	M
Initial territories concentration	0.0	M
Initial jurisdictions concentration	0.0	M
Initial spheres concentration	0.0	M
Initial circles concentration	0.0	M
Initial rings concentration	0.0	M
Initial loops concentration	0.0	M
Initial cycles concentration	0.0	M
Initial periods concentration	0.0	M
Initial eras concentration	0.0	M
Initial ages concentration	0.0	M
Initial centuries concentration	0.0	M
Initial millennia concentration	0.0	M
Initial eons concentration	0.0	M
Initial epochs concentration	0.0	M
Initial eras concentration	0.0	M
Initial ages concentration	0.0	M
Initial centuries concentration	0.0	M

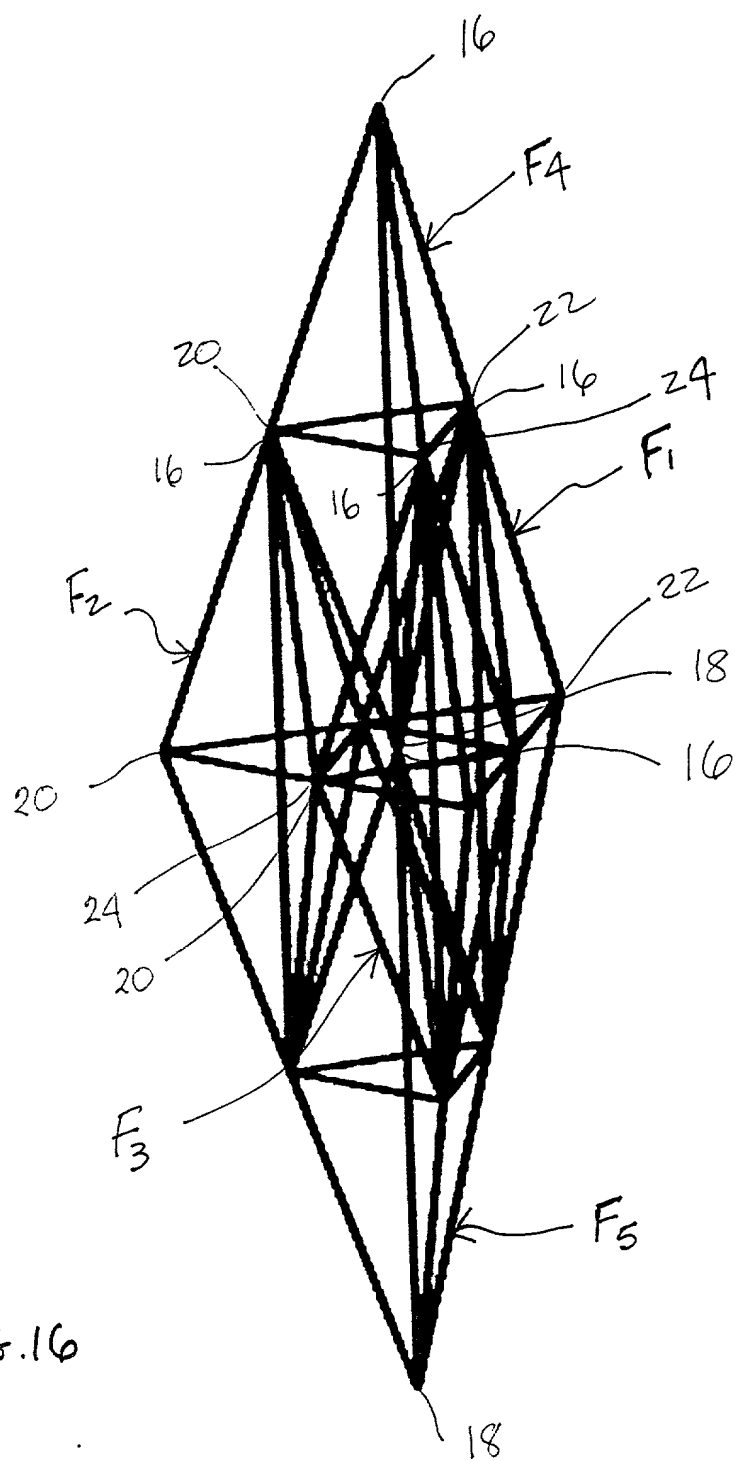


FIG. 16

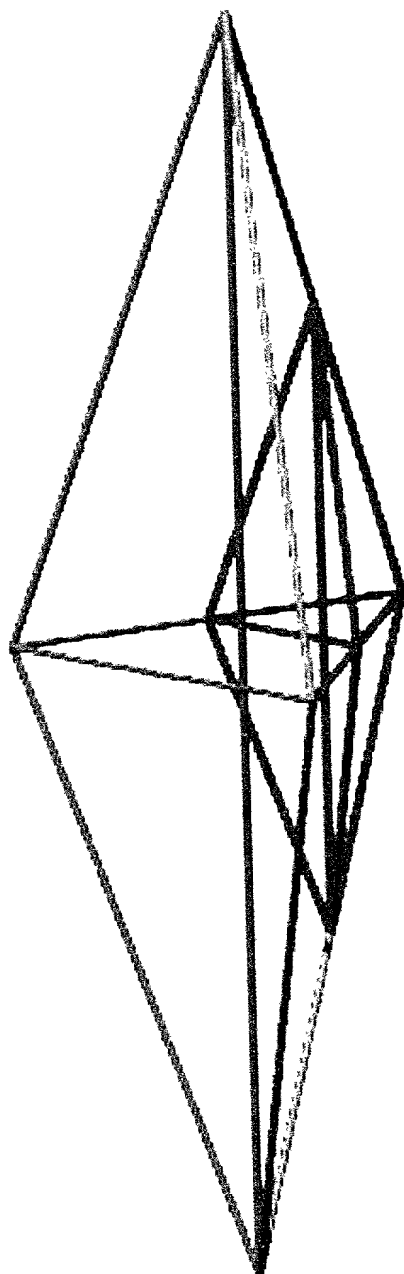


FIG. 17

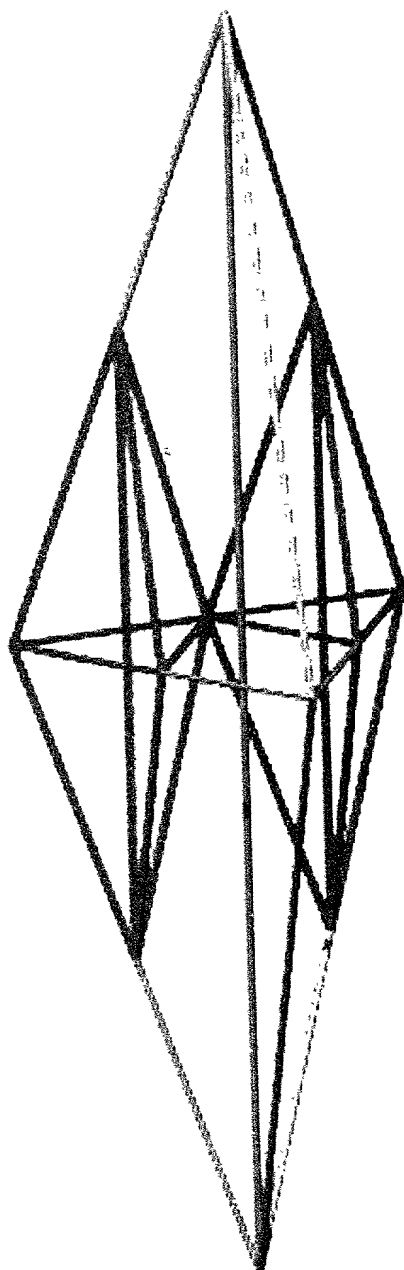


FIG. 18

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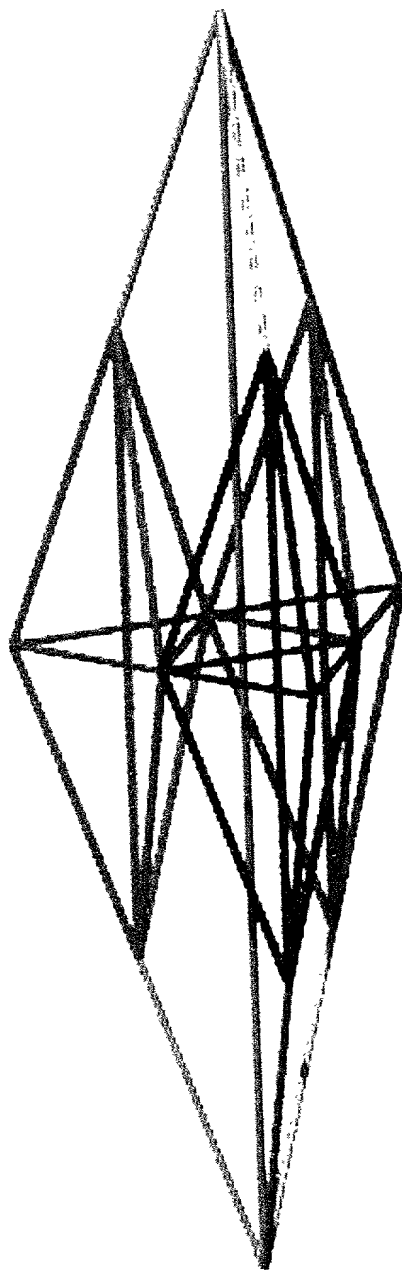


FIG.19

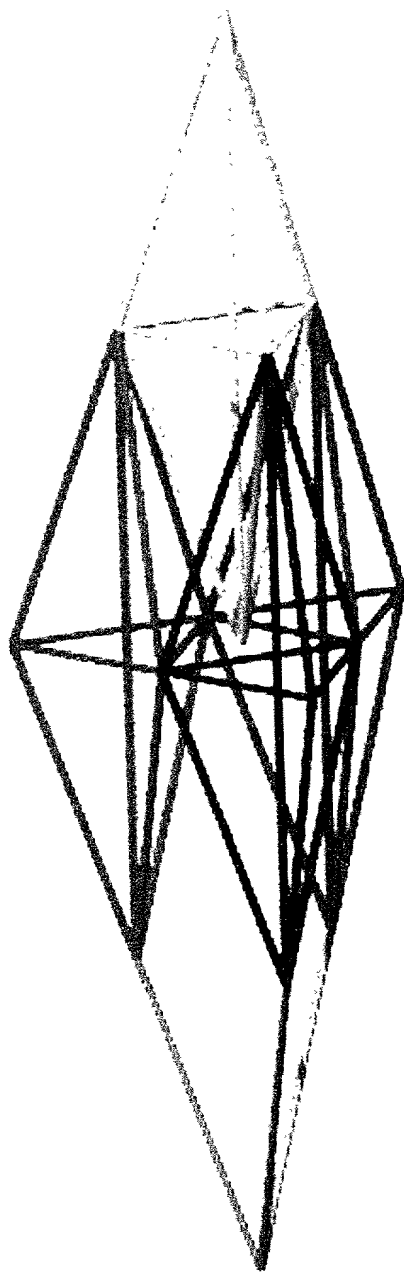


FIG. 20

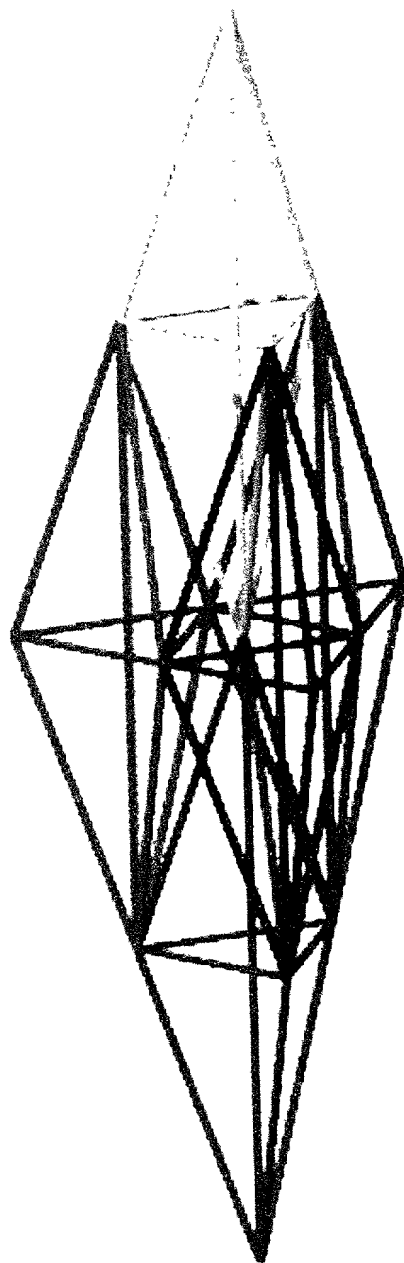


FIG.21

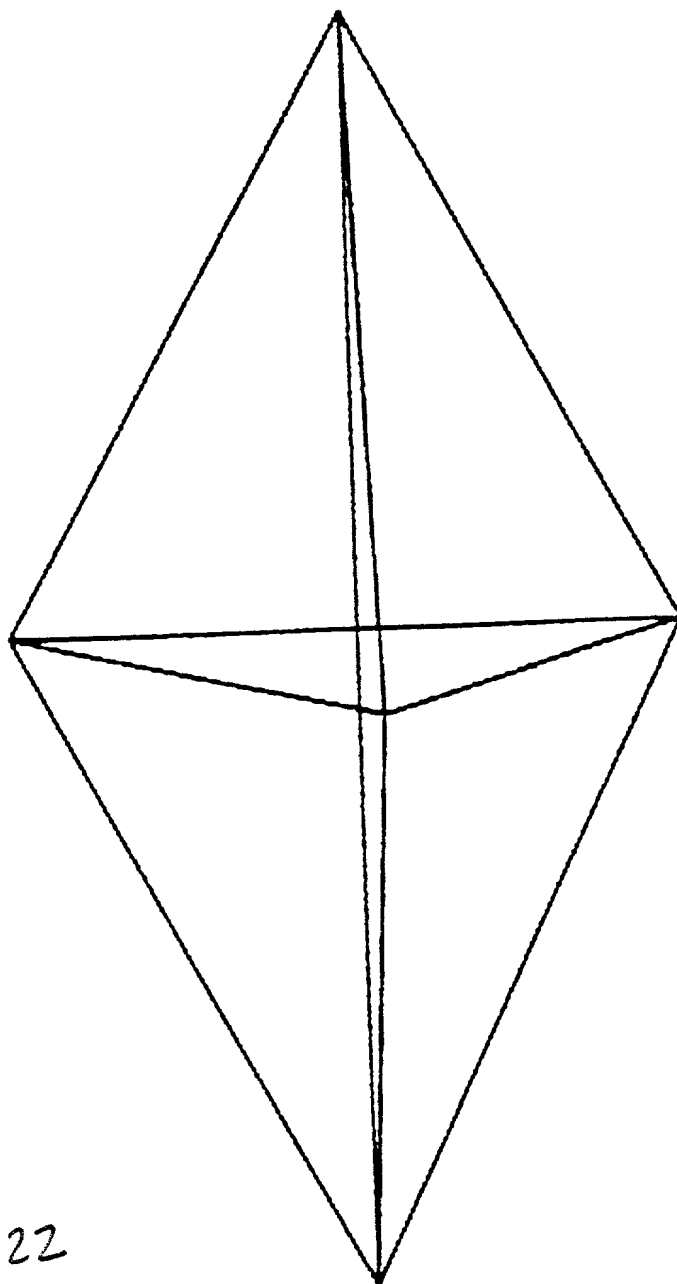


FIG. 22

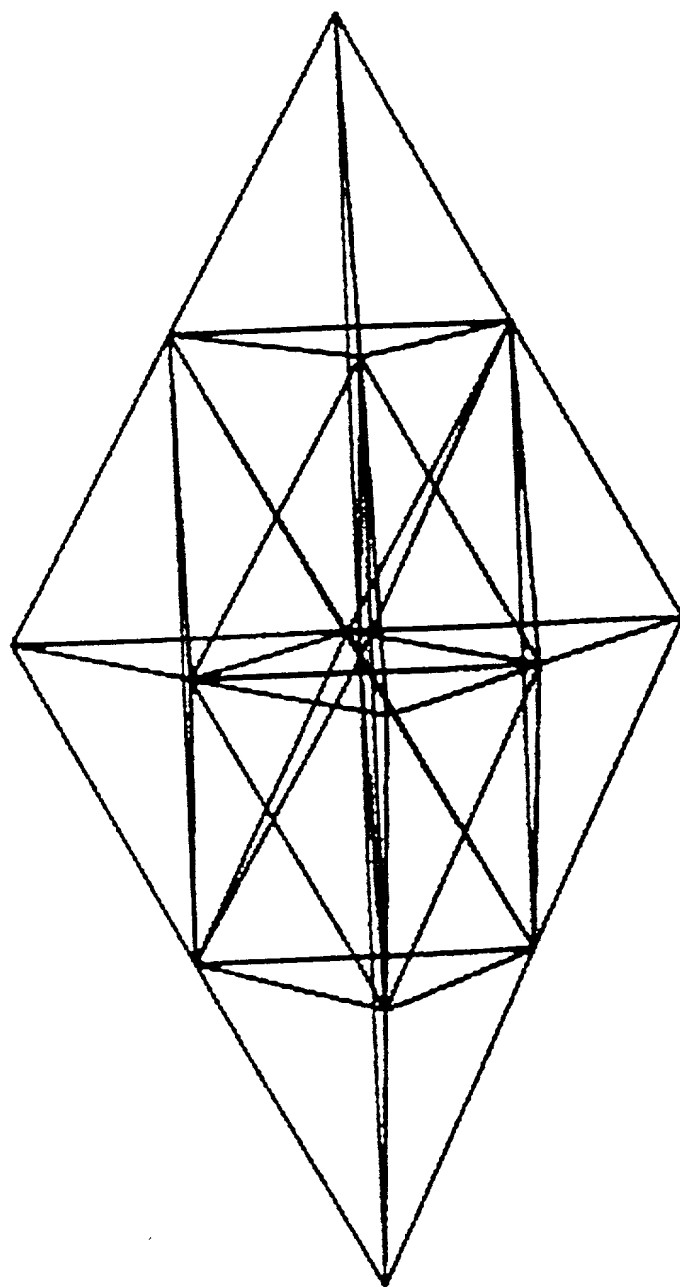


FIG. 23

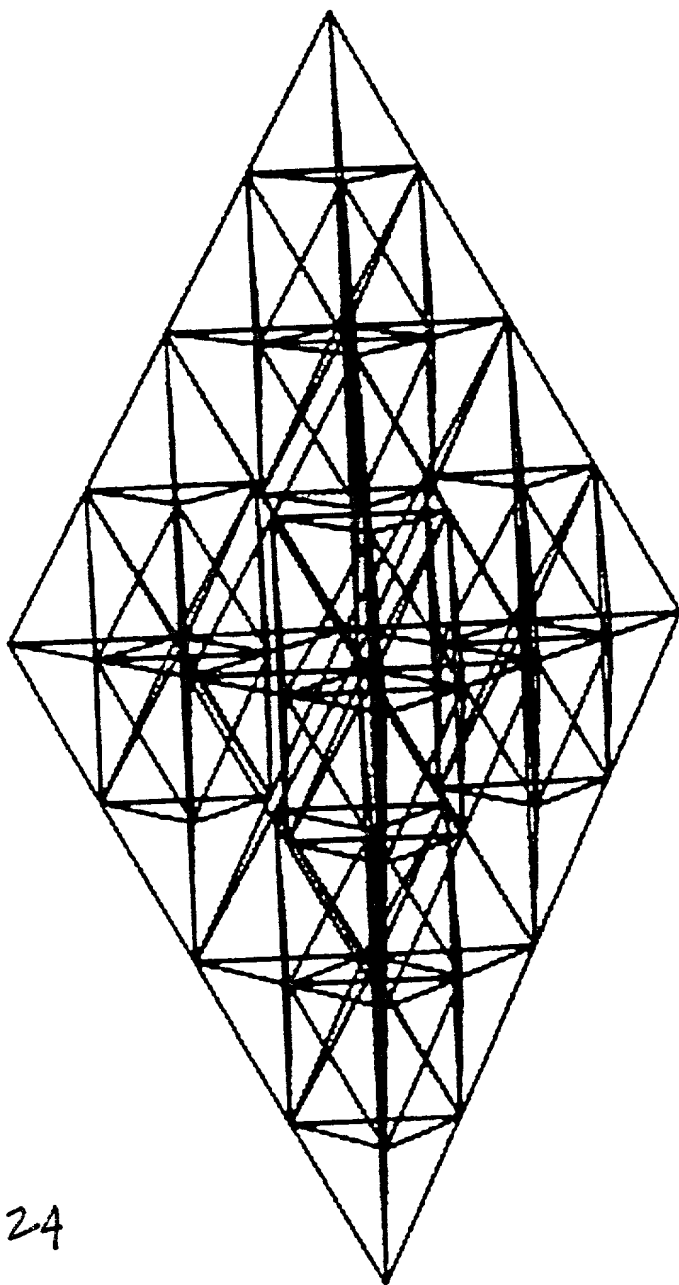


FIG. 24

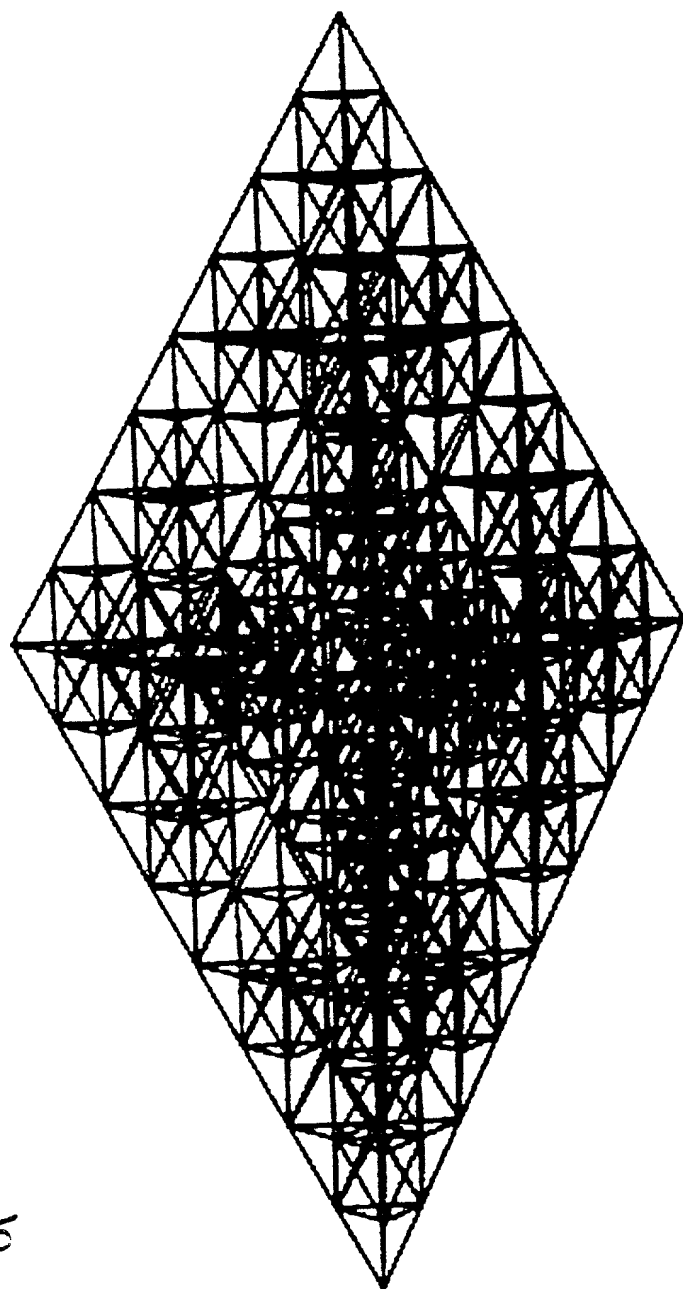


FIG.25

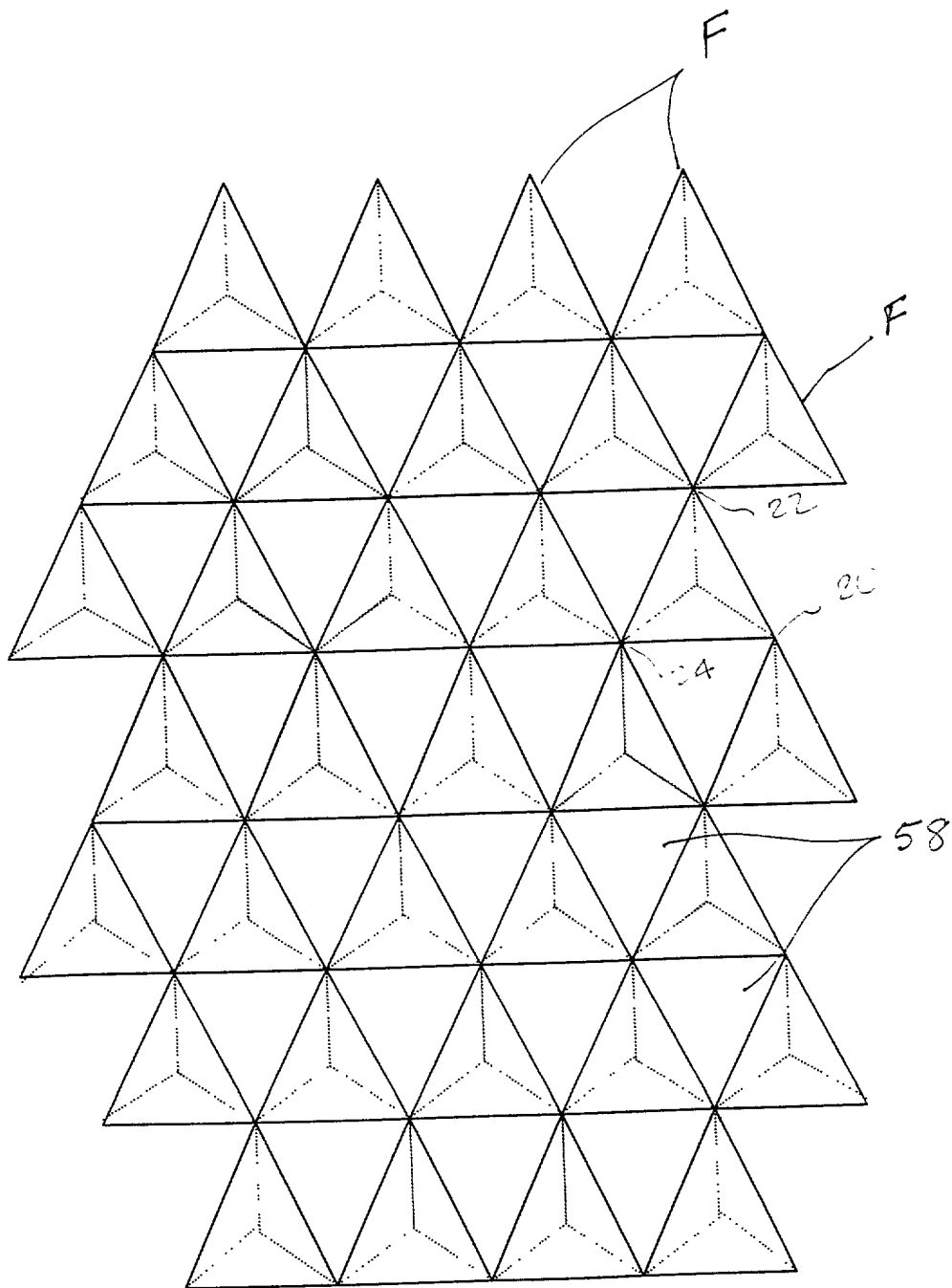


FIG. 26

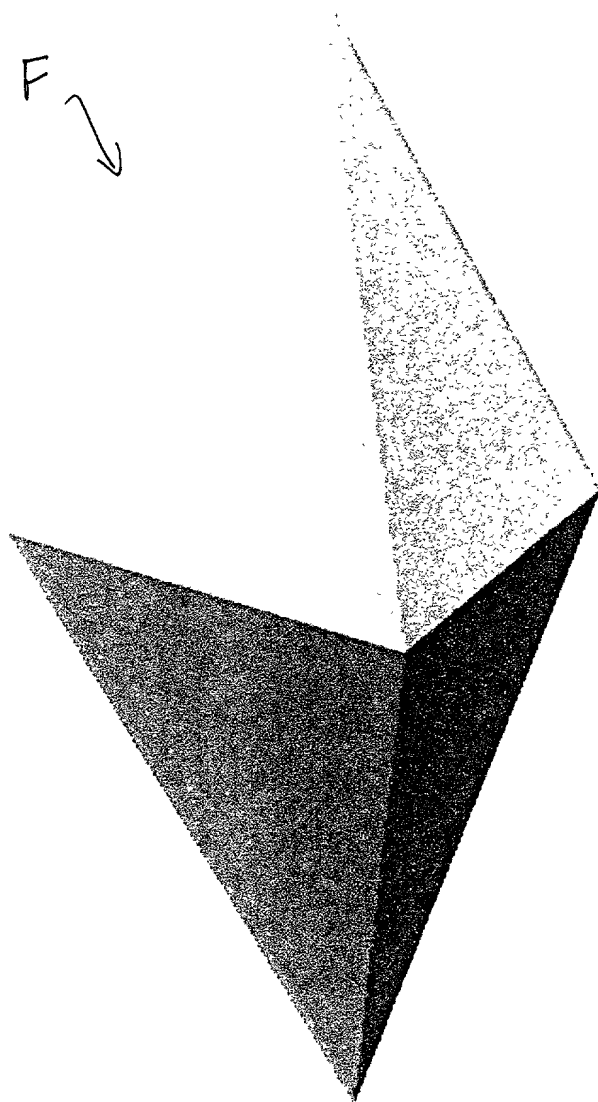


FIG. 27

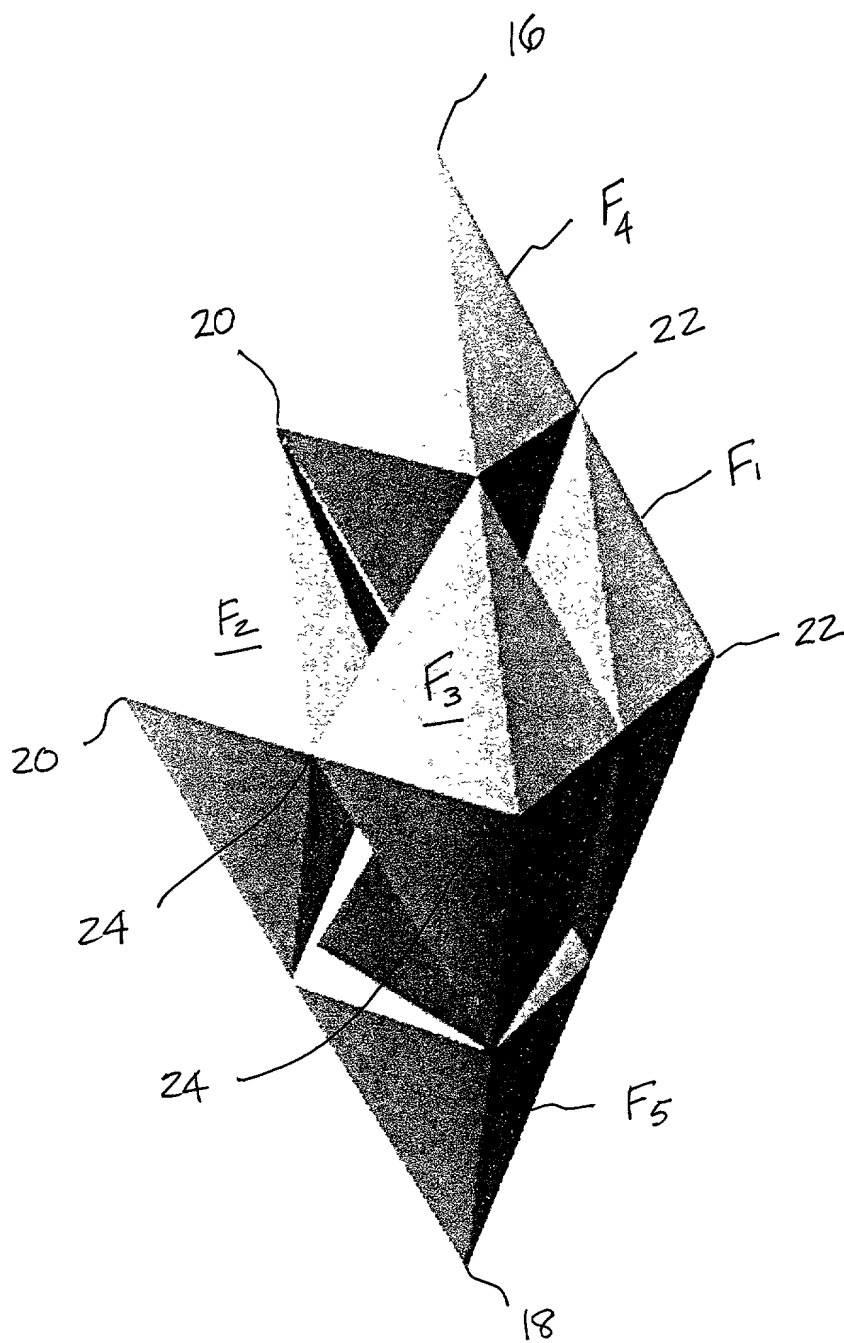


FIG. 28

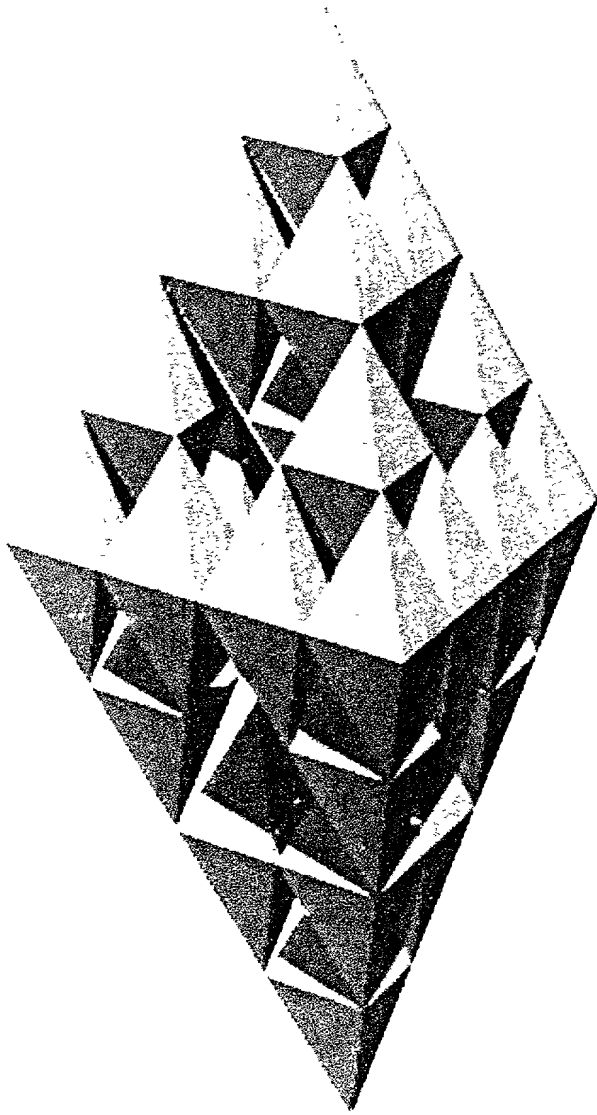


FIG. 29

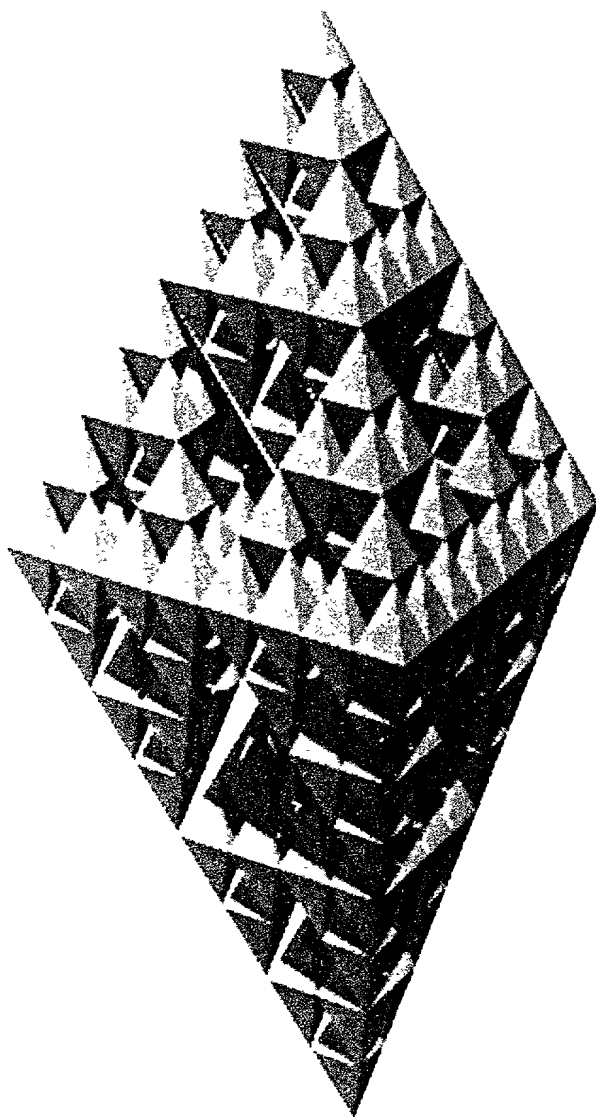


FIG. 30

FIG. 31

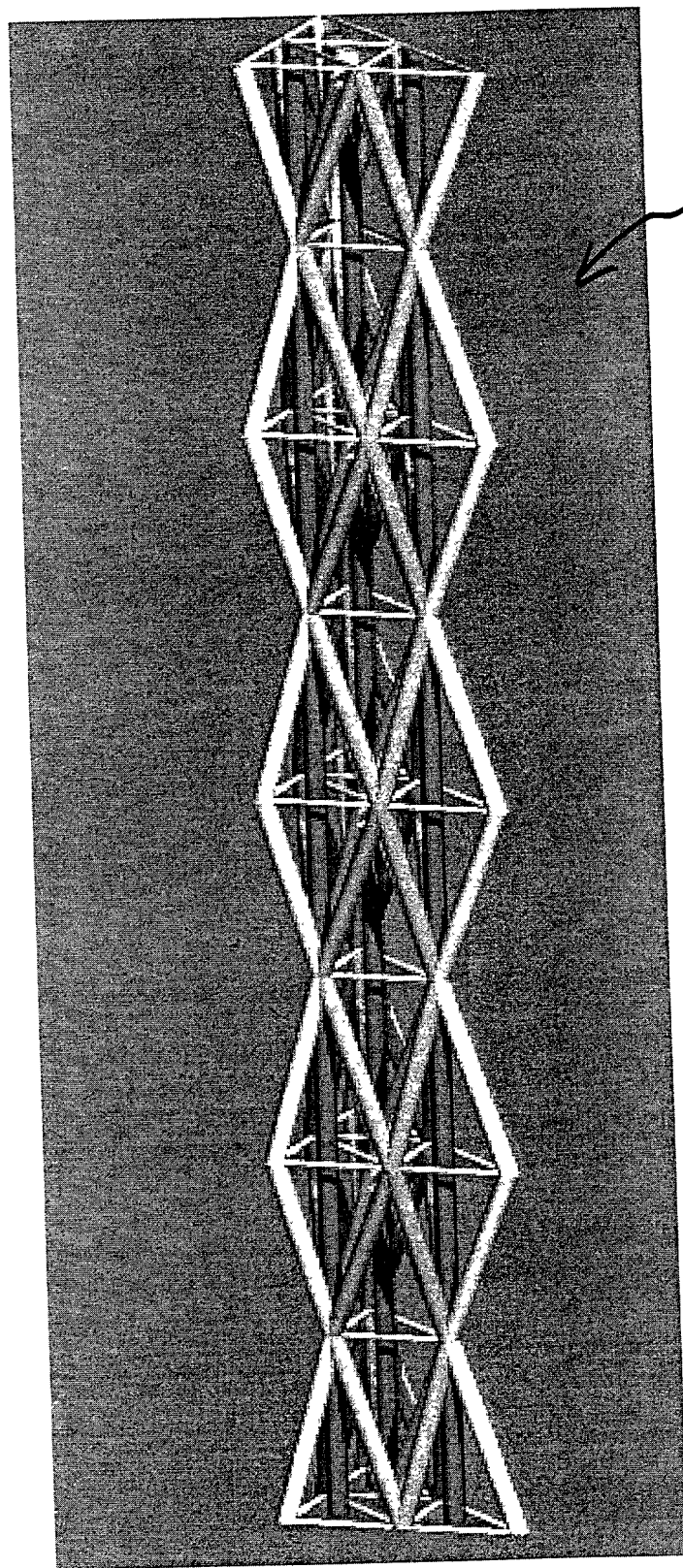


FIG.33

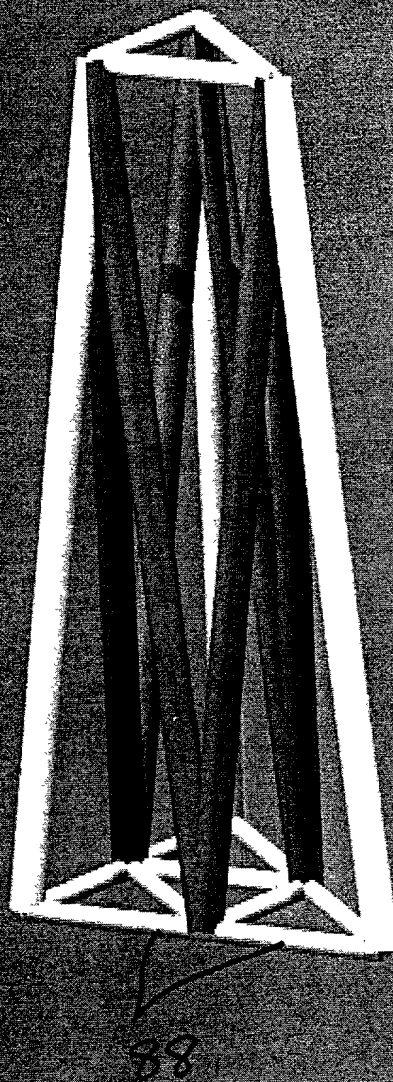
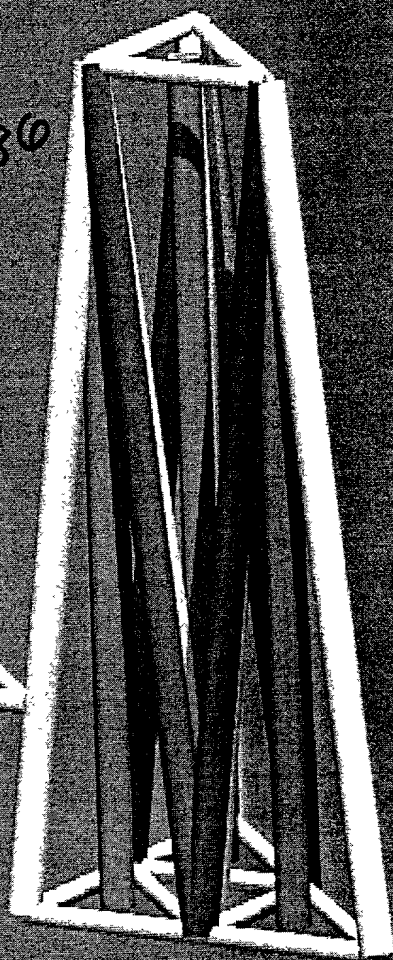
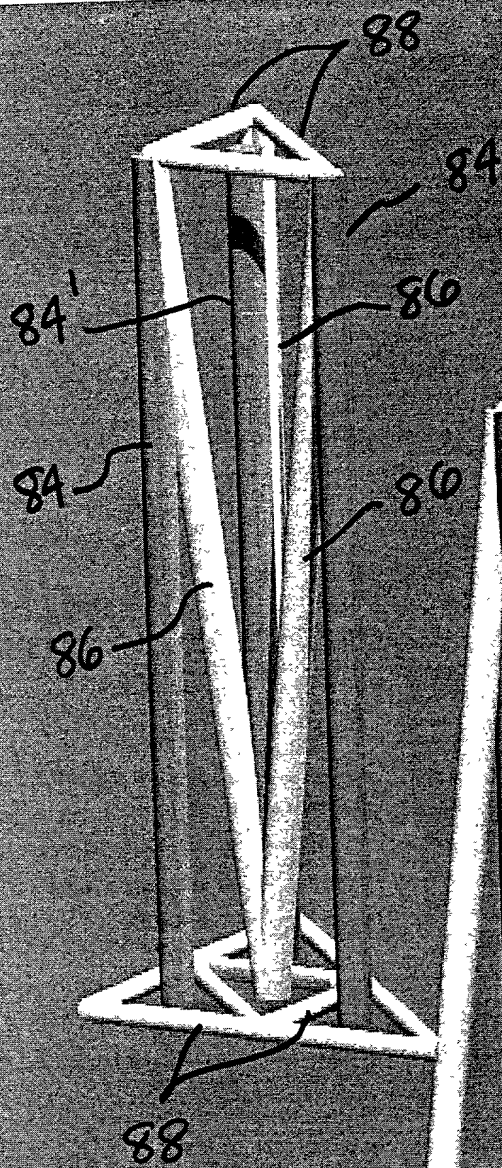


FIG. 35

FIG. 34

FIG. 36

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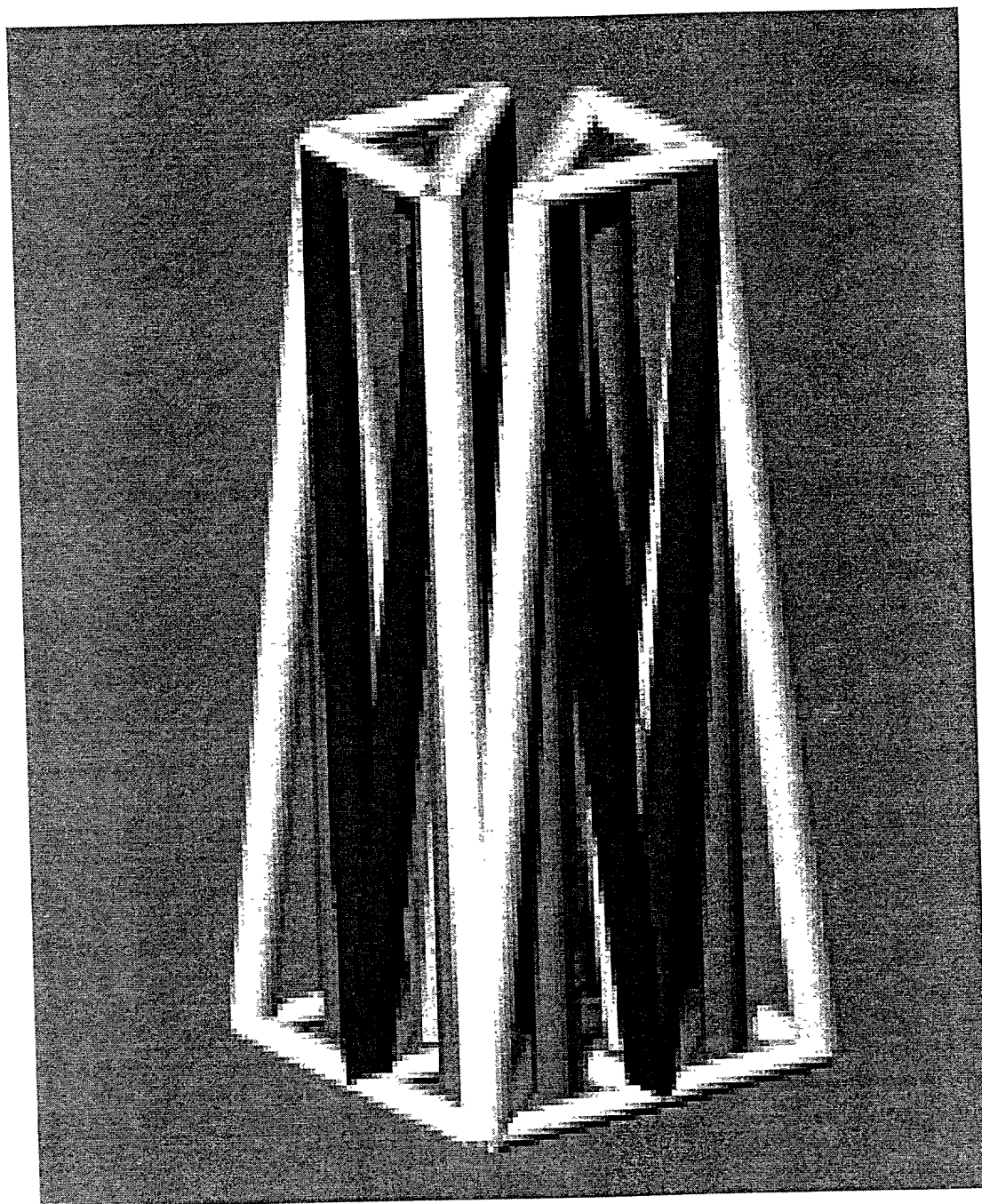


FIG. 37

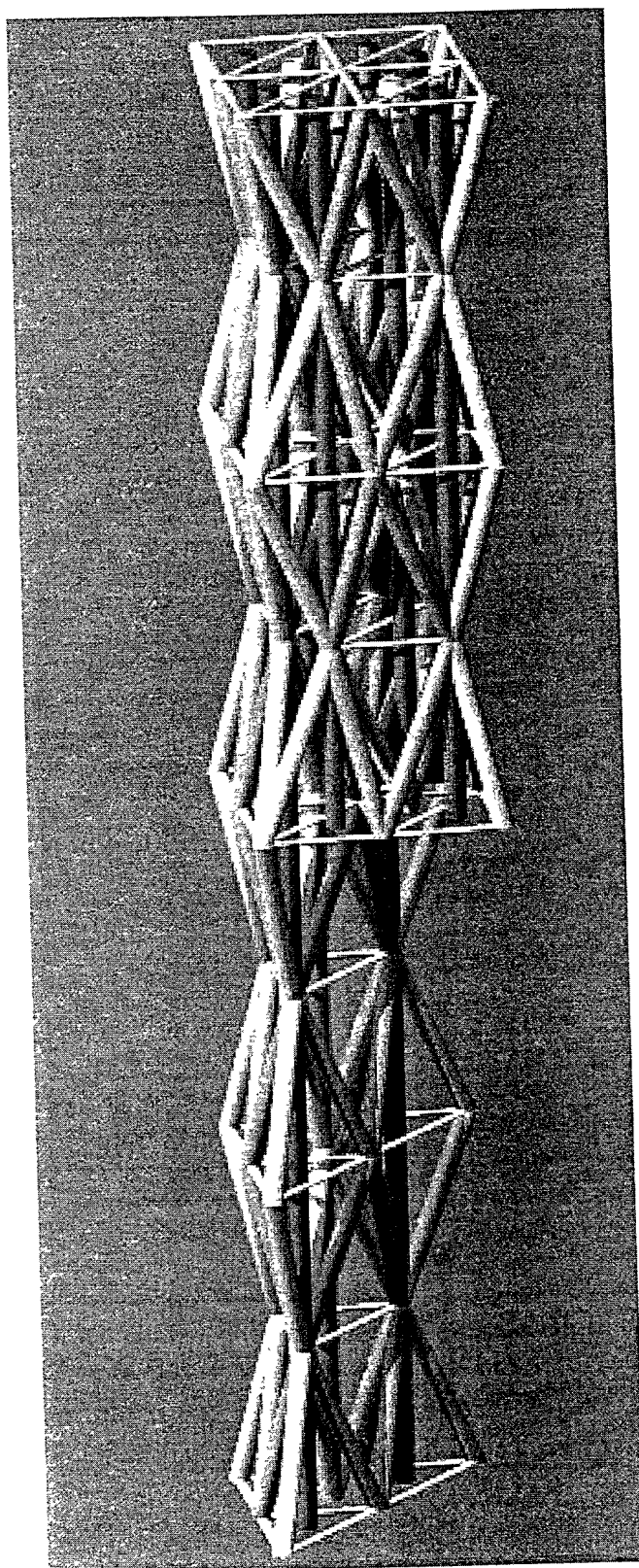


FIG. 38

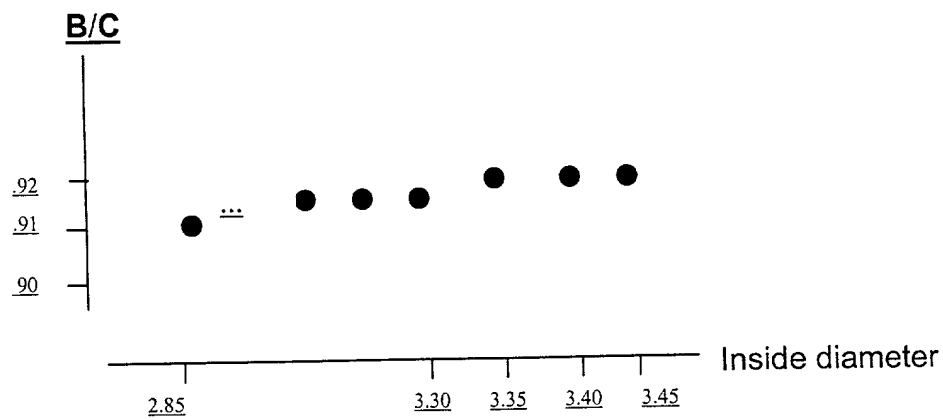


FIG. 39

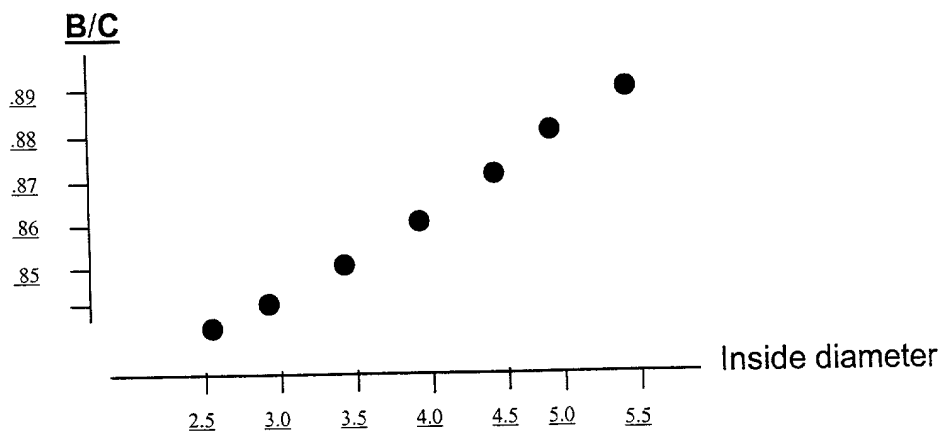
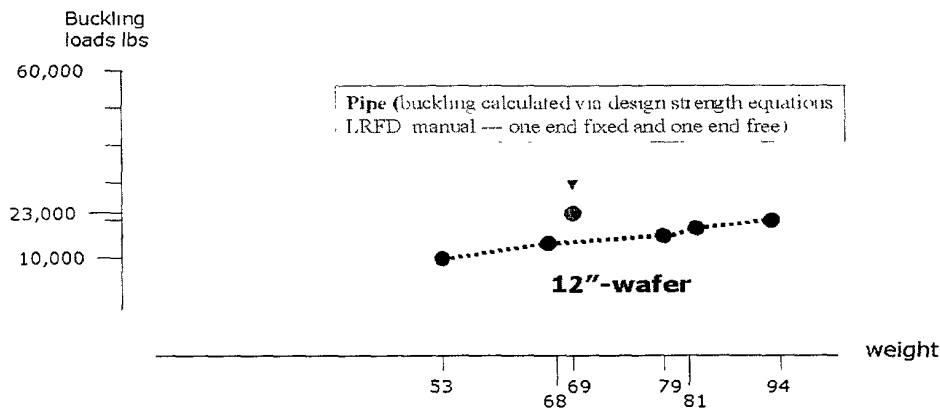


FIG. 40



One A36 steel 3.5" OD 1/4" wall thickness pipe and comparable level-1 12"-wafer 4-web columns

FIG. 41

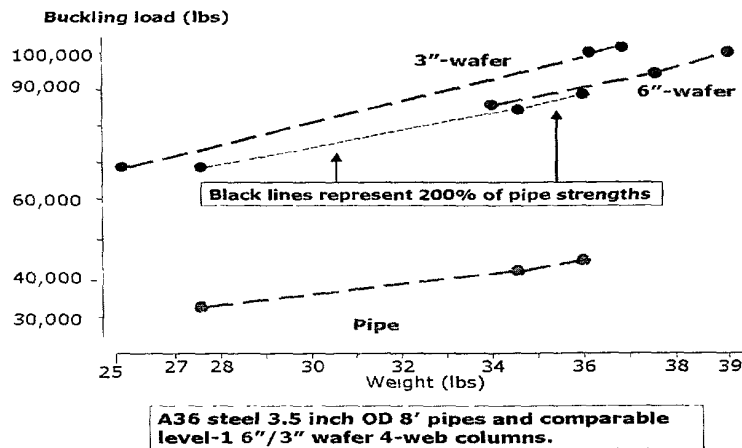


FIG. 42

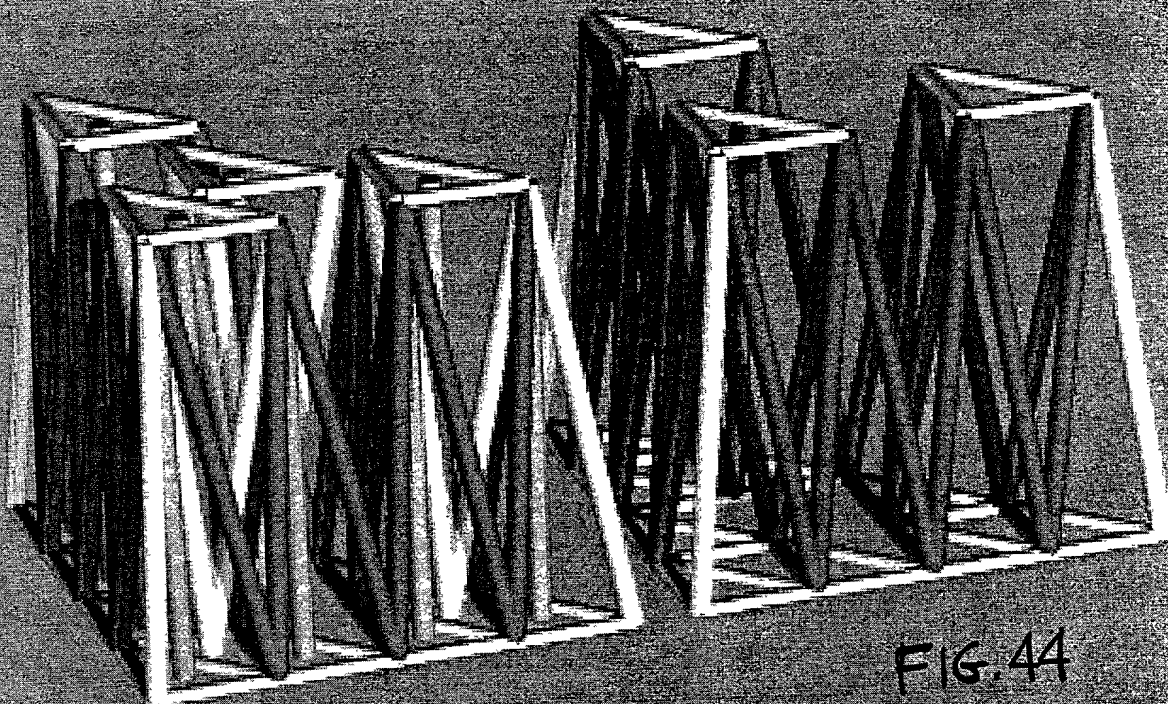


FIG. 43

FIG. 44

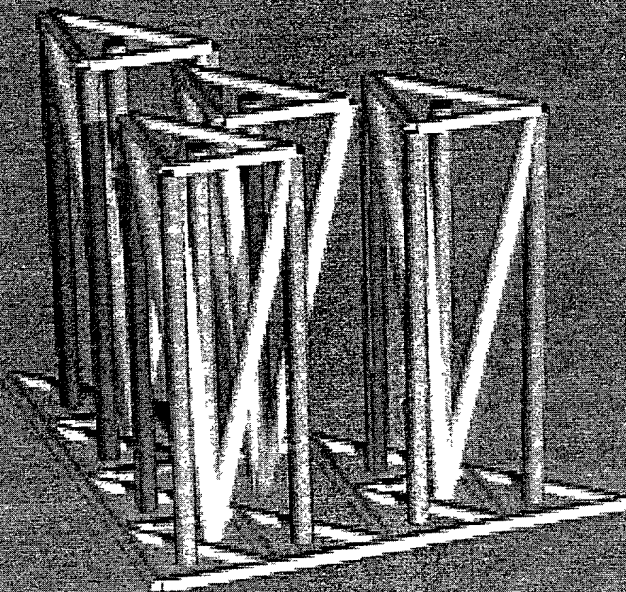


FIG. 45

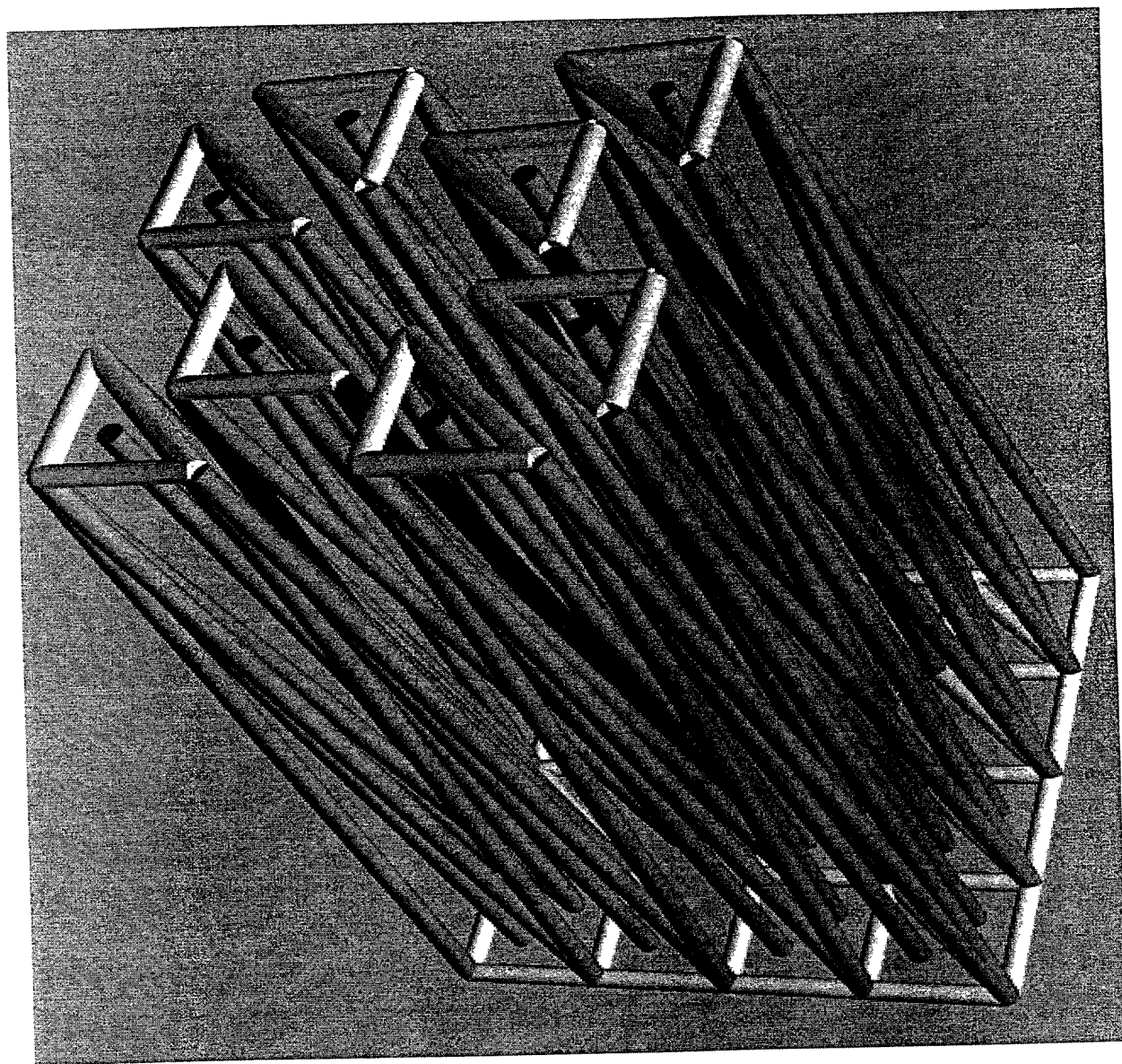


FIG. 46

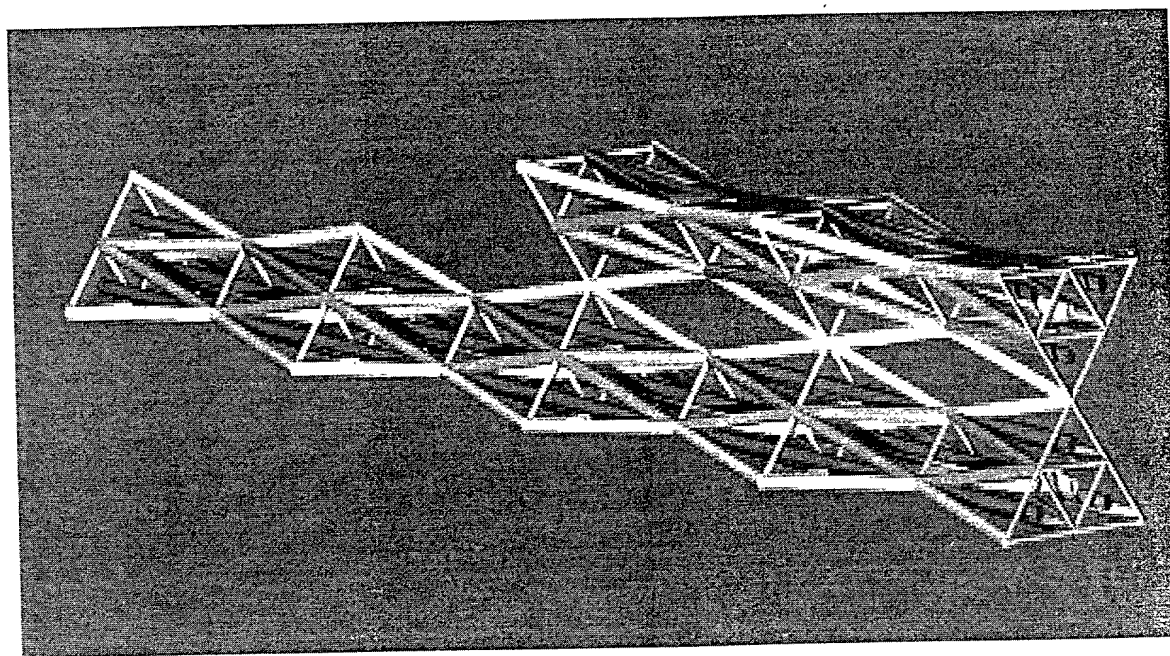


FIGURE 47

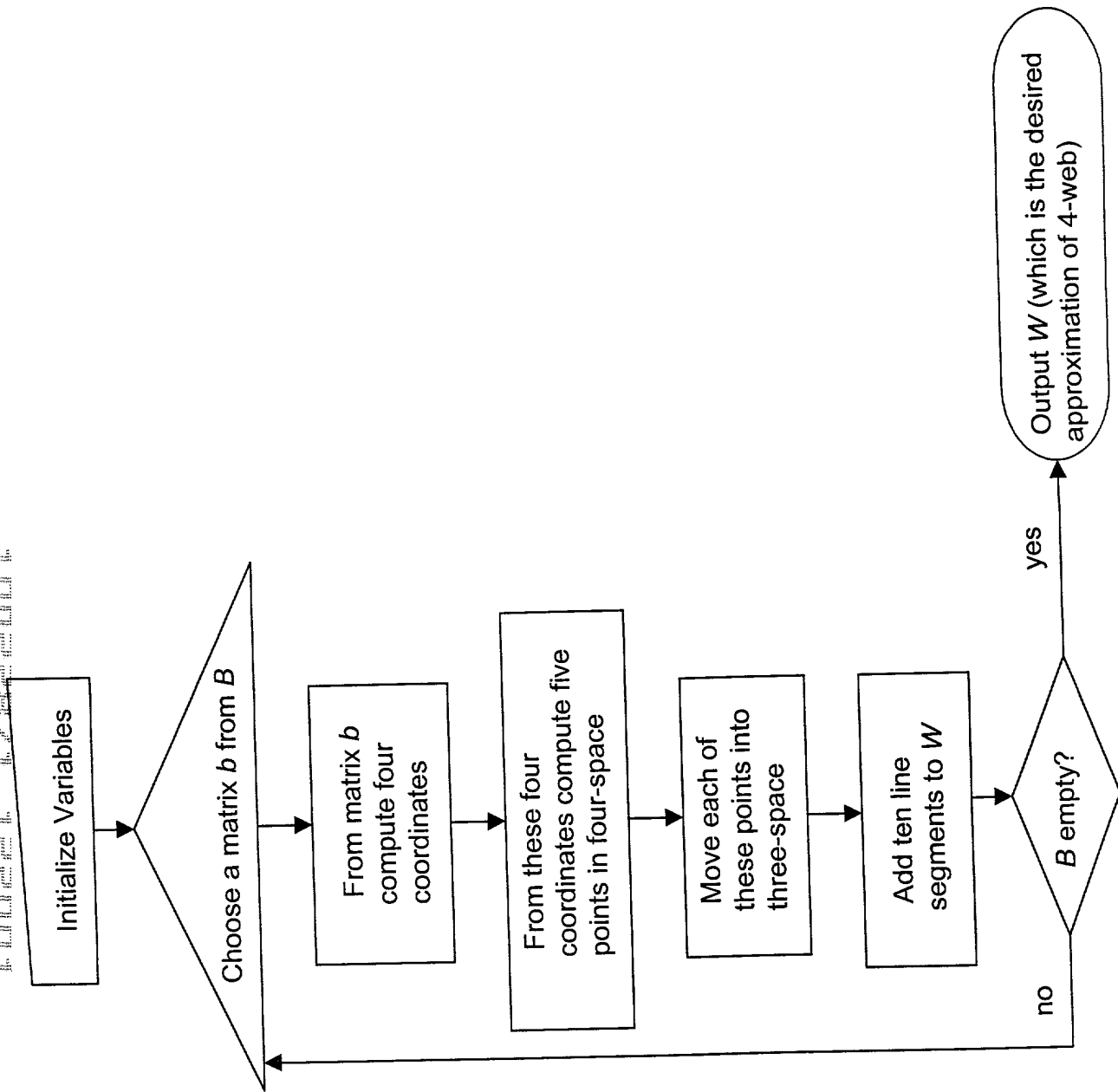


FIG. 48